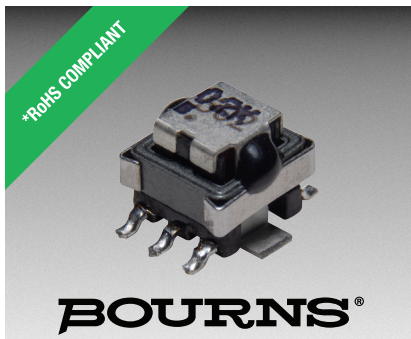




Features

- Rated current on primary up to 20 A for PCS020, up to 40 A for PCS040
- Surface mount
- Frequency up to 1 MHz
- Operating temp: -40 °C to 125 °C
- RoHS compliant*

Applications

- Switched-mode power supplies
- Motor control
- Overload sensing
- AC current applications

PCS Series Current Sense Transformers

General Specifications

Operating Temperature.....	-40 °C to +125 °C
Isolation Between Windings	
PCS020.....	500 Vrms
PCS040.....	800 Vrms
Rated current on primary	
PCS020.....	Up to 20 A (10 A typical)
PCS040.....	Up to 40 A
Frequency.....	Up to 1 MHz
Moisture Sensitivity Level.....	1

Additional Information

Click these links for more information:



Electrical Specifications @ 25 °C

Bourns Part Number	Turns Ratio Primary : Secondary	Secondary Inductance Min. (mH)	DCR		Volt-time Product on Secondary Max. (V-μsec)	Terminating Resistance (1 V Output at Rated Current) (Ω)
			Primary Ref. (mΩ)	Secondary Max. (Ω)		
PCS020-EE05081S	1 : 20	0.081	7	0.4	10.8	1
PCS020-EE05180S	1 : 30	0.18	7	0.87	16.2	1.5
PCS020-EE05320S	1 : 40	0.32	7	1.14	21.6	2
PCS020-EE05500S	1 : 50	0.5	7	1.5	27	2.5
PCS020-EE05730S	1 : 60	0.73	7	1.98	32.4	3
PCS020-EE05980S	1 : 70	0.98	7	4.75	37.8	3.5
PCS020-EE0502KS	1 : 100	2.0	7	5.5	54	5
PCS020-EE0503KS	1 : 125	3.0	7	7	67.5	6.25
PCS040-EF13340S	1 : 20	0.34	1	0.18	50.8	0.5
PCS040-EF13760S	1 : 30	0.76	1	0.265	76.2	0.8
PCS040-EF1301KS	1 : 40	1.36	1	0.56	101.6	1
PCS040-EF1302KS	1 : 50	2.12	1	0.705	127	1.3
PCS040-EF1303KS	1 : 60	3.06	1	0.85	152.4	1.5
PCS040-EF1304KS	1 : 70	4.16	1	1	177.8	1.8
PCS040-EF1305KS	1 : 80	5.44	1	1.15	203.2	2
PCS040-EF1308KS	1 : 100	8.5	1	1.45	254	2.5
PCS040-EF1313KS	1 : 125	13.3	1	1.85	317.5	3.1
PCS040-EF1319KS	1 : 150	19.2	1	2.25	381	3.8
PCS040-EF1334KS	1 : 200	34	1	4.06	508	5



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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BOURNS®

PCS Series Current Sense Transformers

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How To Order

PCS 020 - EE05 081 S

Model _____
 PCS = Current Sense Transformer

Rated Current _____
 020 = 20 A
 040 = 40 A

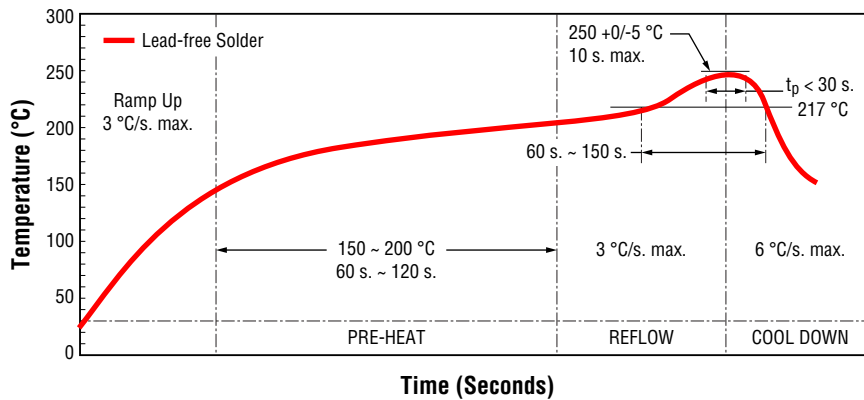
Bobbin Size _____
 EE05 = Bobbin EE5
 EF13 = Bobbin EF12.6

Inductance (see table) _____
 081 = 81 μ H

PCB type _____
 S = SMD

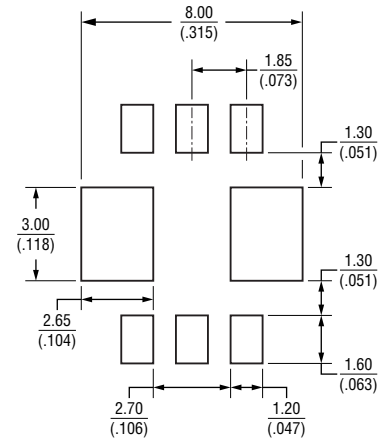
Soldering Profile

The duration from room temperature (25 °C) to peak temperature is 8 minutes maximum.

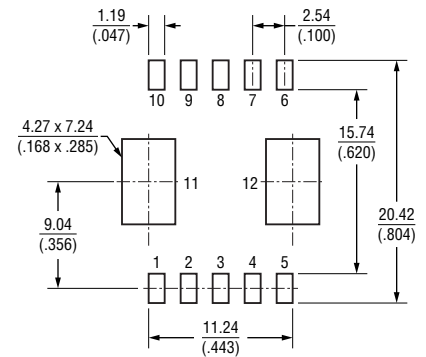


Recommended Layout

PCS020



PCS040



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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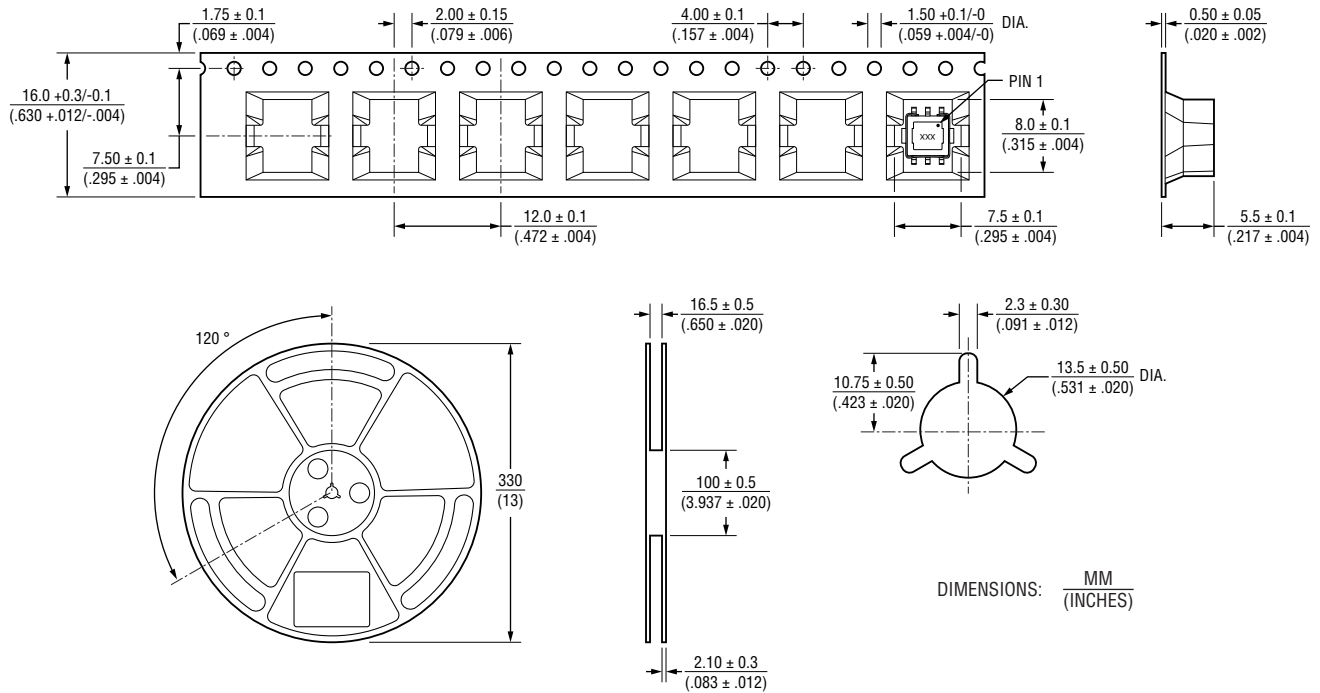
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PCS Series Current Sense Transformers

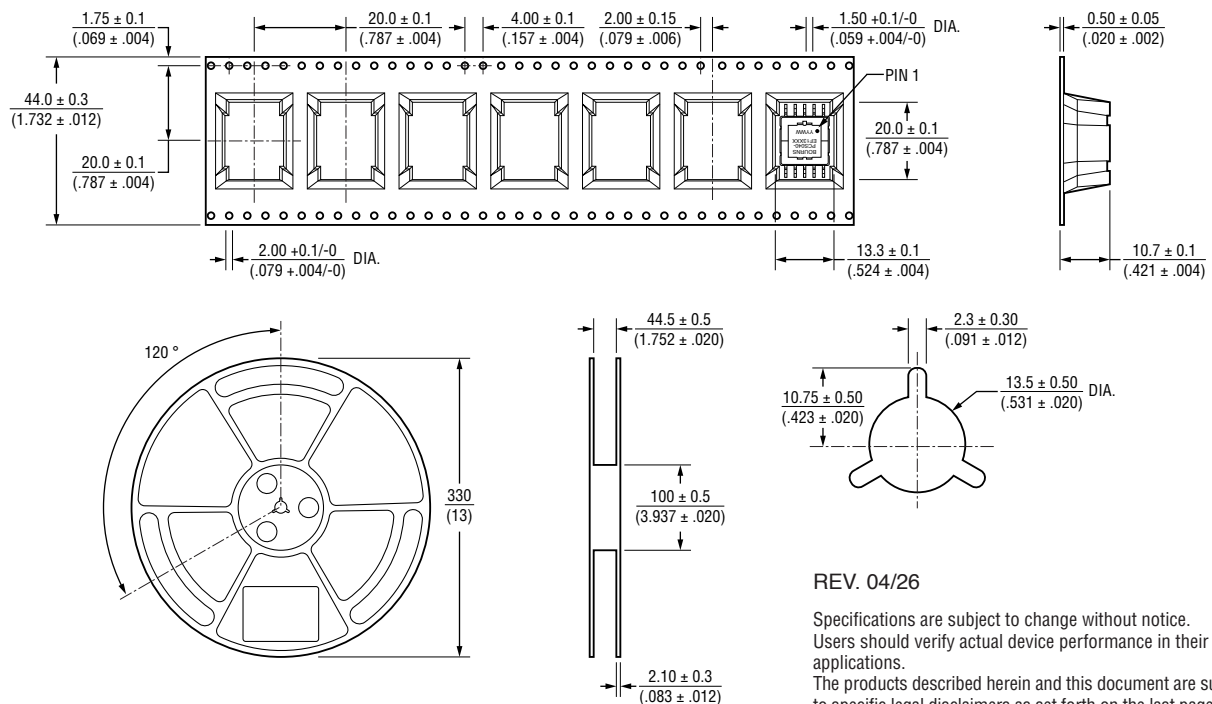
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Packaging Specifications

PCS020



PCS040



REV. 04/26

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